

***Listing of All Claims Including Current Amendments***

1-13. (cancelled).

14. (new) A method for improving a medical procedure; comprising:

providing an endoscope with a longitudinal axis and a variable view vector;

positioning the endoscope relative to anatomical structure to acquire images of the structure;

providing a first display of the images acquired by the endoscope;

providing a second display of a graphical model of the anatomical structure simultaneously with the first display of the images of the anatomical structure acquired by the endoscope, wherein the graphical model is reconstructed from volumetric scan data of the anatomical structure;

acquiring position data of the endoscope relative to the anatomical structure;

displaying in the second display a graphical representation of the endoscope relative to the anatomical structure based on the position data and the volumetric scan data;

acquiring configuration data of the orientation of the view vector relative to the longitudinal axis of the endoscope;

displaying in the second display a graphical representation of the view vector relative the longitudinal axis of the endoscope based on the configuration data.

15. (new) The method of claim 14, further comprising displaying on the second display a graphical representation of the endoscopic view cone.

16. (new) The method of claim 15, further comprising displaying on the second display a marker that indicates the up direction of the images acquired by the endoscope.

17. (new) The method of claim 14, wherein the first and second displays are displayed on first and second monitors.

18. (new) The method of claim 14, wherein the step of acquiring position data of the endoscope relative to the anatomical structure comprises using a plurality of cameras to track light emitting diodes on the endoscope.

19. (new) The method of claim 14, further comprising the steps of:  
selecting a target point relative to the reconstructed anatomical structure; and  
calculating a set of endoscope tip positions from which there is a direct line of sight to the target point.

20. (new) The method of claim 19, further comprising displaying the set of endoscope tip positions for which there is a direct line of sight to the target point.

21. (new) The method of claim 19, further comprising the steps of:
- selecting an entry path for the endoscope;
  - calculating which of the endoscope tip positions for which there is a direct line of sight to the target point are intersected by the entry path; and
  - displaying the endoscope tip positions that are intersected by the entry path.